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**RCA-03/0008/69**

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**Basic Imagery Interpretation Report**



**NATIONAL  
PHOTOGRAPHIC  
INTERPRETATION  
CENTER**

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**CHITA KRUG FACILITY 2**

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**DEPLOYED COMM/ELEC/RADAR FACILITIES**

**USSR**

**FEBRUARY 1969**

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chita Krug Facility 2		UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	
NA	52-10-27N 113-31-19E	
MAP REFERENCE		
ACIC. US Air Target Chart 200, Sheet M0199-22HL, 2nd ed, Apr 65, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

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**ABSTRACT**

Chita Krug Facility 2 is of conventional design, consisting of a control building (goniometer), 40 cage antennas, a reflector screen, and an outer security wall.

**INTRODUCTION**

Chita Krug Facility 2 is located 8.5 nautical miles (nm) north of Chita and 4 nm north-northeast of Chita Krug Facility 1. The facility is at an elevation of 2,400 feet on a level, cleared area. The vegetation has been removed for approximately 2,000 feet around the facility to reduce masking or interference of the incoming signal.

Other electronics facilities in the vicinity of Facility 2 include: Chita THICK EIGHT Facility, 3.5 nm south at 52-07-10N 113-30-15E; Chita HF Communications Facility Smolenka, 2 nm southwest at 52-08-50N 113-29-20E; Chita HF Communications Facility, 2 nm south-southeast at 52-09N 113-34E; and Chita HF Communications Facility Kabpovka, 3.5 nm north-northwest at 52-11-50N 113-28-20E.

**BASIC DESCRIPTION**

Chita Krug Facility consists of the control building, 40 cage antennas, a reflector screen, and an outer security wall (Figure 1). The operational components of the Krug consist of the circle of 40 cage antennas, [ ] in height, spaced at [ ] intervals. The outside diameter of the circle of antennas is [ ]. Immediately inside the circle of cage antennas is a reflector screen supported by 40 pole masts, each 50 feet high; these are at [ ] intervals around the [ ] diameter of the inner circle. In the center of the two circles is the control building which measures [ ].

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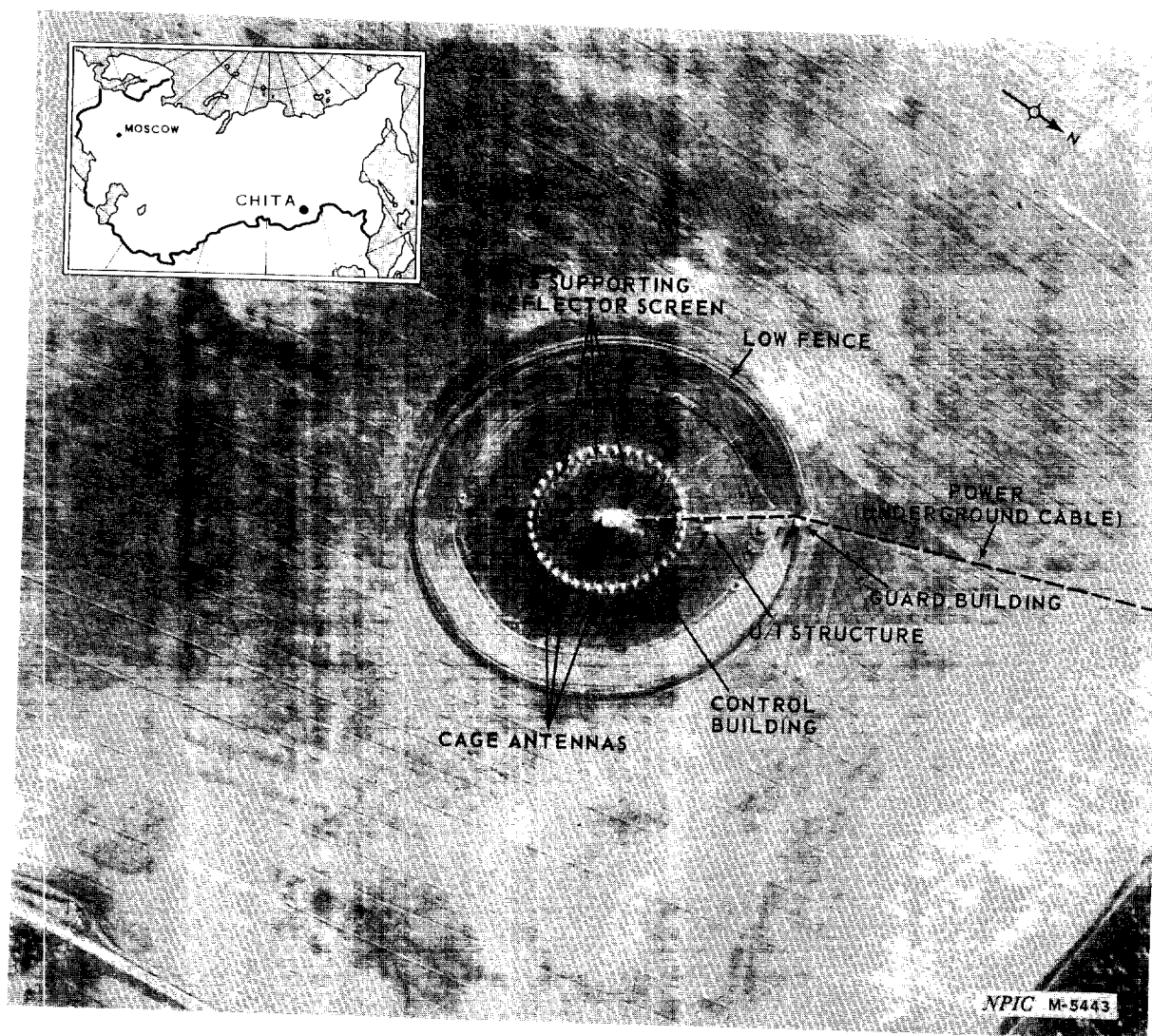


FIGURE 1. CHITA KRUG FACILITY 2.

The outer wall, which is [ ] in diameter, provides security. A guardhouse measuring [ ] is at the entrance to the facility. An unidentified structure measuring [ ] is located between the security wall and the antennas.

Although the cage elements of the Krug array are stationary, it can be scanned 360 degrees by electronic switching. A rotating goniometer sequentially connects sets of the cage elements to compose a beam.<sup>1</sup>

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Electrical power requirements for the Krug are comparatively low because the antenna is a passive device. Normally, power is brought in from the outside because of the noise problem of on-site generation. Also, because of the noise problem, powerlines are underground in the immediate vicinity of the antenna.

If Chita Krug Facility 1 is operated in concert with Facility 2, it would greatly enhance the combined HF DF capability over that of either facility operating independently. Chita THICK EIGHT Facility also could be used in connection with either or both Krug facilities to further enhance HF DF capabilities. The three HF facilities appear to be receiving and could be deployed in an intercept role, although no direct physical connection with Facility 2 could be determined.

#### REFERENCES

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#### MAPS OR CHARTS

ACIC. US AIR Target Chart 200, Sheet M0199-22III, 2d ed, Apr 65, Scale 1:200,000  
(SECRET)

#### DOCUMENT

1. US Navy, Scientific and Technical Intelligence Center. STIC-CS-05-3-65, (U) Communist World Electronic Equipment, 1965 (SECRET)

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#### REQUIREMENT

COMIREX BR-C/005-69  
NPIC Project 210630

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